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(54) SAFETY LATCH FOR A HOOK

(57) A hook assembly (10) including a spring-biased safety latch (40) that provides for installation of the latch onto the hook without spring tension.

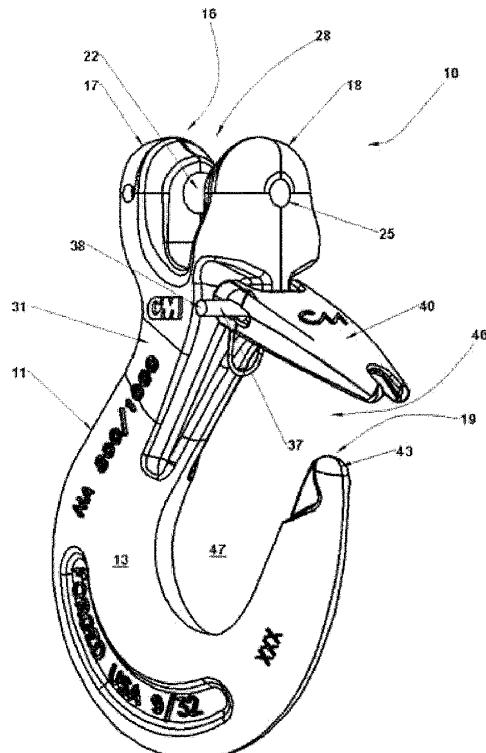


Figure 1



PARTIAL EUROPEAN SEARCH REPORT

Application Number

EP 21 18 0738

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under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
10	<p>A GB 499 245 A (CHRISTIAAN ADAM) 20 January 1939 (1939-01-20) * abstract; figures 1-4 *</p> <p>-----</p> <p>A JP S58 34875 U (JAPAN HOOK) 7 March 1983 (1983-03-07) * paragraph [0003]; figures 1-6 *</p> <p>-----</p> <p>A FR 2 108 846 A1 (CHARLET SA) 26 May 1972 (1972-05-26) * abstract; figures 1-7 *</p> <p>-----</p> <p>A US 3 575 458 A (CROOK EDWARD J JR ET AL) 20 April 1971 (1971-04-20) * abstract; figures 1-7 *</p> <p>-----</p>	<p>1-4, 10-15</p> <p>1-4, 10-15</p> <p>1-4, 10-15</p> <p>1-4, 10-15</p>	<p>INV. B66C1/36</p>
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25			
30			<p>TECHNICAL FIELDS SEARCHED (IPC)</p> <p>B66C</p>
35	INCOMPLETE SEARCH		
40	<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p>		
45			
50	<p>4</p> <p>Place of search The Hague</p>	<p>Date of completion of the search 9 February 2022</p>	<p>Examiner Rupcic, Zoran</p>
55	<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p>	<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>	



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**INCOMPLETE SEARCH
SHEET C**

Application Number
EP 21 18 0738

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Claim(s) completely searchable:
1-4, 10-15

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Claim(s) not searched:
5-9

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Reason for the limitation of the search:
In response to the Invitation under Rule 62a(1) the applicant has indicated that the search is to be carried on independent claim 1 and corresponding dependent claims 2-4 and 10-15.

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ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 21 18 0738

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-02-2022

10	Patent document cited in search report	Publication date		Patent family member(s)	Publication date
	GB 499245 A	20-01-1939	BE GB	427924 A 499245 A	14-02-2022 20-01-1939
15	JP S5834875 U	07-03-1983	JP JP	S5834875 U S6034705 Y2	07-03-1983 16-10-1985
	FR 2108846 A1	26-05-1972		NONE	
20	US 3575458 A	20-04-1971		NONE	
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